

APPENDIX B

Aerial Photo Review

APPENDIX B

Aerial Photograph Review

Site History Report – October 2004

Ingersoll Rand Company Facility

Phillipsburg, New Jersey

Aerial photographs of the Site were obtained from site archives (originally provided by AERO Services Inc.), as well as through Robinson Aerial Photo, Inc. As listed in the Aerial Photo Index included in this appendix, photographs from 1939 through 2002 were reviewed. Copies of the photographs are also included.

Photo Date: November 14, 1939

The November 14, 1939 aerial photograph (unknown scale) shows the Ingersoll-Rand facility (Site) and the adjacent Ingersoll-Rand farmland (farm). The site appears to be bordered on the north by railroad tracks and a major roadway (Route 22), a major road to the east (Route 22), open/agricultural land to the south and west, and some residential development to the southwest. There appears to be a stream (Lopatcong Creek) near the southern farm boundary. There are some residential neighborhoods north of the Site across Route 22. There is a small residential area east of the Site across the highway. Farther west, on the other side of the Site, there are extensive residential neighborhoods. Other than the Site itself, and these residential areas, the Site is in a rural area surrounded mostly by farmland to the north and east.

As shown in the photo, 52 buildings appear to be located on the site. However, the presence of shadows makes it difficult to identify exact building boundaries in some cases. In the southwest corner of the plant there appears to be a cluster of industrial buildings, identified in the historical review to be the Cameron Pump Division. To the northeast of Cameron Pump there is another cluster of industrial buildings. Based on the historical review the buildings further southwest are part of the Compressor division and the buildings further northeast are part of the Drill division. The building complex located the furthest northwest is the Foundry division. South of the Foundry division and west of the Compressor division there are four distinguishable buildings: one just south of the Foundry division, as well as two smaller buildings southwest of that building, and a longer building to its southeast. There are some soil/debris piles and possible small structures located east and northwest of the building closest to the Foundry division, as well as to the west of the other three buildings.

East of the compressor division there appears to be a reservoir (later identified as the Spray Pond). There appears to be two drainage streams off the eastern side of the reservoir. The southern most drainage stream disappears eastward quickly, the northern path drains into two or three ponds located to the east and is untraceable from there. The 1939 photo shows the presence of the Lopatcong Creek near the southern boundary and an apparent drainage ditch southwest of the southern group of farm structures. Based on facility records, discharge from the facility had been conducted through a subgrade pipe system that fed the concrete lined drainage ditch observed in the photograph.

Northeast of the Spray Pond is a long structure. Through existing reports and site investigations, the structure was identified as a coal trestle and appears to have railroad tracks leading into its western end.

Off the southeastern corner of the coal trestle northeast of the Spray Pond there appear to be several soil/debris or coal piles. Northeast of the coal trestle there appears to be a bulk storage tank, which was identified as an oil tank through the site investigation.

In the area south of the Spray Pond and southeast of the Compressor division there appear to be railroad tracks with soil/debris piles both sides. Through the site review, these piles were determined to be part of the land-filling activities conducted at the site (now identified as the Old Landfill).

Photo Date: March 23, 1951

The March 23, 1951 aerial photograph (unknown scale) appears largely similar to the 1939 photograph with the following exceptions. The Site appears to have undergone some expansion. Many new structures, additions, and parking areas have been constructed across the Site. Outdoor storage areas appear to be located in and around the Cameron area, south of the Compressor division, southeast of the Spray Pond, as well as in and around the Drill division located in the northeast section of the site. A second bulk storage tank was constructed south of the previous oil tank. Two ponds appear to the east of the Spray Pond in line with an apparent drainage ditch. The coal trestle appears to be more defined than in the 1939 photograph. Filling activities at the Old Landfill appear to have extended southwest from the Spray Pond and drainage ponds into the southern portions of the site, which appeared cultivated in the 1939 photograph. There are soil/debris piles visible along the southern boundary of the Spray Pond as well. Areas slightly north of the filling activities and southwest of the Spray Pond appear to be used for storage. West of the foundry division in the northwest corner of the property four ponds have been added to the Site.

There also appears to have been a moderate increase in residential development in the area around the Site and farmland. A substantial area southwest of the reservoir midway to the Lopatcong Creek has developed since the 1939 photo.

Photo Date: May 21, 1957

The Site, as observed in the May 21, 1957 aerial photograph (scale 1":750') appears similar to the 1951 photograph. The Site appears to have undergone some building alterations and construction. The fill activities to the south and west of the ponds and Spray Pond have increased from the previous photograph. The storage area south west of the Spray Pond has also increased from the previous aerial.

West of the Spray Pond and south of the Compressor division, four structures have been erected near the railroad tracks in the fill area. There appears to be two structures located east of the ponds and

west of the coal trestle. Northeast of the Drill division in the northeast corner of the Site there appears to be a storage area east of the parking lot and a debris area east of that. Outdoor storage has increased to the south of the Cameron area and what appears to be fill, is present in the southwest corner of the Site.

Photo Date: April 22, 1959

The April 22, 1959 photograph (scale 1"=1500') does not appear to be different from the 1957 photograph except that additional area surrounding the Site is shown. No apparent changes are noticeable around the Site or the farm from the previous photo.

Photo Date: December 1, 1962

The December 1, 1962 aerial photograph (scale 1"=1600') appears at a smaller scale than previous photos making smaller Site features more difficult to discern. On the Site, three bulk-storage tanks are visible northeast of the Spray Pond.

The third tank was constructed to the west of the previous two tanks. The Cameron division in the southwestern corner of the Site appears to have undergone some reconstruction and the outdoor storage area has increased in size. The two southern most ponds in the northwest corner of the site appear smaller than in previous photos.

Outdoor storage has increased around the Foundry division buildings in the northwest corner of the site. An anomaly (possibly a sink hole) has appeared in the northeast corner of the site north of the Drill division. The storage area southwest of the Spray Pond has increased from the previous years and filling activities at the Old Landfill continued from the ponds south of the Spray Pond west towards the Cameron division. There are more structures in the fill area on the south boundary of the Site. North east of the Drill division the storage area has increased from previous years.

Photo Date: January 12, 1966

The January 12, 1966 aerial photograph (scale 1"=1700') in general shows the site and surrounding area as they were in 1962. There appears to have been construction and reconstruction across the Site. The ponds west of the Foundry division appear less discernable. The buildings south of the Foundry division and west of the main parking area appear to have an increased outdoor storage area to the south. The filling process at the Old Landfill continues along the southern boundary of the Site. Soil/debris piles have increased in the outdoor storage area north of the Drill division east of the parking lot. The anomaly previously identified in the northeast corner of the site north of the Drill division is not discernable in the present photograph. Outdoor storage activities appear to have increased in the area west of the Spray Pond.

Photo Date: April 26, 1974

The Site, as shown on the 1974 aerial photograph (scale 1"=1000') is largely similar to the Site configuration shown in previous years. Construction and reconstruction of the structures at the Site vary from the configuration in the 1960s. Filling operations at the Old Landfill appear to have continued to the southeast beyond the western pond, south of the Spray Pond and have reached the farm boundary. There appears to be nine rectangular structures in a line approximately 20 feet by 40 feet southwest of the Spray Pond in the fill area. Also, the coal trestle on the east side of the facility (south of the bulk storage tanks) appears to have been removed. The railroad tracks are still visible, however, immediately south of the area where that coal trestle was located, and some dark piles appear to remain. Immediately to the northeast of the bulk storage tank farm there appears to be the foundation for another tank, though no tank is visible. The area east of the tracks and south of the bulk storage tanks appears to have soil/debris piles (previous photographs show an uncultivated area). Soil/debris piles are also discernable north of the bulk storage tanks at the boundary of the farm. The storage area north of the Drill division has increased soil/debris piles toward the east. Directly east of the there at the farm boundary appears to be a new outdoor storage area in a section of the property previously undisturbed. In the bulk storage area there appears to be a new storage tank foundation northwest of the existing bulk storage tanks. Outdoor storage has increased in and around the Drill division and Compressor division building complex. Two of the four ponds west of the Foundry division are less discernable than previous years.

Photo Date: November 25, 1981

The November 25, 1981 aerial photograph (scale 1"=750') shows the Site in similar configuration to the previous photo without any discernable differences. The Site appears to have undergone some construction across the facility as well as in the northeast portion of the Site, where a new building and parking areas appear. A new bulk storage tank is apparent in the tank farm where the foundation was observed in the previous photograph. The tracks from the coal trestle have been removed with only soil/debris piles remaining in the area. There appears to be a roadway along the southern and eastern sides of the facility identified through a site review as Loop Road. The fill has leveled around the ponds and the Spray Pond toward the west. The fill activities continue further west than previously noted and up to the farm boundary in the east. The area off the southwest corner of the Spray Pond has become a building and large storage pad; there are no more visible soil/debris piles in the area.

There is a new storage area visible south of the Compressor division roughly 150 feet by 350 feet. Outdoor storage and parking lots have been altered across the Site from the 1970's photograph. There is only one discernable pond remaining west of the Foundry division. The storage/debris area located northeast of the Drill division appears to have been leveled and used primarily for storage at this time. The previous storage area directly east of there has also been leveled and is merely a roadway (part of Loop Road) and a field. A few railroad tracks appear to remain on Site.

No other significant changes from the previous photo are noticeable in nearby areas.

Photo Date: November 27, 1991

The November 27, 1991 aerial photograph (scale 1"=800') does indicate significant changes at the Site. The Site appears to have undergone several building removals throughout the facility, specifically in the Foundry division along the north and central portions of the main facility area, the Drill division in the eastern portion of the facility, and the Cameron division in the southwestern portion of the facility. West of the Foundry division the previous ponds are not discernable, but there is a new pond in the area. East of the Drill division and west of the bulk storage tanks there appears to be a diverse soil/debris pile. In the area of the previous coal trestle it is unclear whether the area is covered by debris or vegetation. Additionally, areas south of the new Loop Road appear substantially different. The large storage area south of the Compressor division has been removed. Facility records indicate that the New Landfill was constructed during this period and appears toward the southwestern corner of the facility; and the Old Landfill was covered during this time. Northeast of the Cameron division there appears to be some soil/debris piles. There are no more discernable railroad tracks remaining on Site.

The nearby farm does not appear to have significant changes with the exception that the silo formerly present at the former Pursel Farm house appears to have been removed.

Photo Date: 1995 and 2002

The 1995 and 2002 aerial photographs were reviewed from the NJ Geographic Information System files. Changes on the Site include the removal of all the remaining buildings from Cameron division in the southwestern corner of the facility. The new landfill has been leveled and covered with scattered soil piles just to the east.

No changes were discernable between the 1995 and 2002 aerial photos.



Source:
Aero Services 11/14/39

Client:
Ingersoll Rand Company
Design/Review: GM/CV
Scale: unknown
Date: 10/01/04

Figure Title:
Appendix B
Aerial Photographs
Ingersoll Rand - Phillipsburg, New Jersey
Project No.: 03710-162





Source:
Aero Services 3/27/51

Client:
Ingersoll Rand Company
Design/Review: GM/CV
Scale: unknown
Date: 10/01/04

Figure Title:
Appendix B
Aerial Photographs
Ingersoll Rand - Phillipsburg, New Jersey
Project No.: 03710-162





Source:
Aero Services 5/21/57

Client:
Ingersoll Rand Company
Design/Review: GM/CV
Scale: unknown
Date: 10/01/04

Figure Title:
Appendix B
Aerial Photographs
Ingersoll Rand - Phillipsburg, New Jersey
Project No.: 03710-162





Source:
Robinson Aerial 4/22/59

Client:
Ingersoll Rand Company
Design/Review: GM/CV
Scale: 1:1500
Date: 10/01/04

Figure Title:
Appendix B
Aerial Photographs
Ingersoll Rand - Phillipsburg, New Jersey
Project No.: 03710-162





Source:
Robinson Aerials 12/1/62

Client:
Ingersoll Rand Company
Design/Review: GM/CV
Scale: 1:1600
Date: 10/01/04

Figure Title:
Appendix B
Aerial Photographs
Ingersoll Rand - Phillipsburg, New Jersey
Project No.: 03710-162





Source:
Robinson Aerial 1/12/66

Client:
Ingersoll Rand Company
Design/Review: GM/CV
Scale: 1:750
Date: 10/01/04

Figure Title:
Appendix B
Aerial Photographs
Ingersoll Rand - Phillipsburg, New Jersey
Project No.: 03710-162





Source:
Robinson Aerial 4/26/74

Client:
Ingersoll Rand Company
Design/Review: GM/CV
Scale: 1:1000
Date: 10/01/04

Figure Title:
Appendix B
Aerial Photographs
Ingersoll Rand - Phillipsburg, New Jersey
Project No.: 03710-162





Source:
Robinson Aerial 11/25/81

Client:
Ingersoll Rand Company
Design/Review: GM/CV
Scale: 1:750
Date: 10/01/04

Figure Title:
Appendix B
Aerial Photographs
Ingersoll Rand - Phillipsburg, New Jersey
Project No.: 03710-162





Source:
Robinson Aerial 11/27/91

Client:
Ingersoll Rand Company
Design/Review: GM/CV
Scale: 1:800
Date: 10/01/04

Figure Title:
Appendix B
Aerial Photographs
Ingersoll Rand - Phillipsburg, New Jersey
Project No.: 03710-162

